

12-28-01

A

PTO/SB/05 (11-00)

Please type a plus sign (+) inside this box ☒

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

22.1414

First Inventor

James S. Almaguer

Title

Downhole Magnetic Field-Based Feature Detector

Express Mail Label No.

EV 037 145 887 US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages (preferred arrangement set forth below)
- Descriptive title of the invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 

5. Oath or Declaration [Total Pages 

a. ☒ Newly executed (original or copy)  
Copy from a prior application (37 CFR 1.63 (d))  
(for continuation/divisional with Box 18 completed)

b. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6. ☐ Application Data Sheet. See 37 CFR 1.76

**ADDRESS TO:**Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☒ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☒ Information Disclosure Statement (IDS)/PTO-1449 ☒ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: .....

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: .....

Prior application information:

Examiner: .....

Group Art Unit: .....

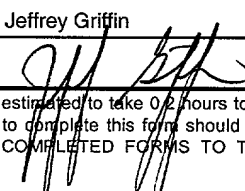
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☒ Correspondence address below

Name	Schlumberger Technology Corporation				
Address	14910 Airline Road				
	P.O. Box 1590				
City	Rosharon	State	Texas	Zip Code	77583-1590
Country	USA	Telephone	281/285-5720	Fax	281/285-5537

Name (Print/Type)	Jeffrey Griffin	Registration No. (Attorney/Agent)	36,534
Signature		Date	12/20/01

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: ALMAGUER, J.

Attorney Docket No.: 22.1414

Serial No.:

Art Unit:

Filed Herewith: December 20, 2001

Examiner:

For: Downhole Magnetic-Field Based Feature Detector

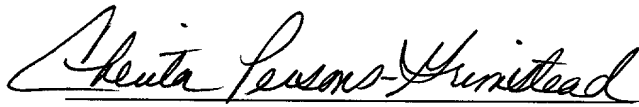
Box PATENT APPLICATION

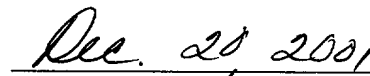
Commissioner of Patents and Trademarks

Washington, D.C. 20231

CERTIFICATE OF MAILING

I hereby certify that this Fee Calculation Sheet (in duplicate) is being deposited with the United States Postal Service as Express Mail No. EV 037 145 887 US in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231.

  
Cherita Persons-Grimstead

  
Date

Cherita Persons-Grimstead  
Schlumberger Technology Corporation  
14910 Airline Road  
Rosharon, Texas 77583-1590  
Telephone: (281) 285-5104

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# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 2316.00

## Complete if Known

Application Number	
Filing Date	December 20, 2001
First Named Inventor	James S. Almaquer
Examiner Name	
Group Art Unit	
Attorney Docket No.	22.1414

## METHOD OF PAYMENT

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit  
Account  
Number

50-0457

Deposit  
Account  
Name

Schlumberger Technology Corporation

- ☒ Charge Any Additional Fee Required  
Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status.  
See 37 CFR 1.27

2. ☐ Payment Enclosed:

☐ Check ☐ Credit card ☐ Money  
Order ☐ Other

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
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Fee Paid

101	710	201	355	Utility filing fee	740.00
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	

SUBTOTAL (1) (\$ 740.00

### 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
54	-20** = 34	18	612.00
14	-3** = 11	84.00	924.00
Multiple Dependent			

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
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103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claim, if not paid
109	80	209	40	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 1536.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for ex parte reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00
146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00

## SUBMITTED BY

Name (Print/Type) Jeffrey E. Griffin

Registration No.  
(Attorney/Agent)

36,534

## Complete (if applicable)

Telephone (281) 285-5720

Signature

Date

12/20/01

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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## STATEMENT UNDER 37 CFR 3.73(b)

Applicant: **Schlumberger Technology Corporation**

Application No.:

Docket No.: 22.1414

Entitled: Downhole Magnetic Field-Based Feature Detector

Schlumberger Technology Corporation, a corporation, states that it is the assignee of the entire right, title, and interest in the patent application identified above by virtue of either:

- A. ☐ An assignment from the inventor(s) of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel: \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above to current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

- ☒ Copies of assignments or other documents in the chain of title are attached.

The undersigned is empowered to sign this statement on behalf of the assignee

Date: 12.19.01

Signature: \_\_\_\_\_

  
Joe Goss, Vice President

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: ALMAGUER, J.

Attorney Docket No.: 22.1414

Serial No.:

Art Unit:

Filed: December 20, 2001

Examiner:

For: Downhole Magnetic-Field Based Feature Detector

Box PATENT APPLICATION

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**CERTIFICATE OF MAILING**

I hereby certify that the Recordation Form Cover Sheet and Assignment are being deposited with the United States Postal Service as Express Mail No. EV 037 145 887 US in an envelope addressed to: Assistant Commissioner for Patents, Box Assignment, Washington, D.C. 20231.



Cherita Persons-Grimstead



Date

Cherita Persons-Grimstead  
Schlumberger Technology Corporation  
14910 Airline Road  
Rosharon, Texas 77583-1590  
Telephone: (281) 285-5104

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: ALMAGUER, J.

Attorney Docket No.: 22.1414

Serial No.:

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Box PATENT APPLICATION

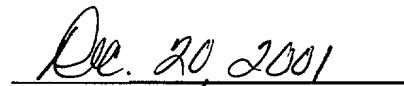
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Washington, D.C. 20231

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Cherita Persons-Grimstead

  
Date

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Schlumberger Technology Corporation  
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P.O. Box 1590  
Rosharon, Texas 77583-1590  
Telephone: (281) 285-5104

1002221" 5683001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: ALMAGUER, J.

Attorney Docket No.: 22.1414

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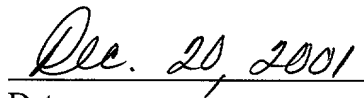
Washington, D.C. 20231

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Cherita Persons-Grimstead



Date

Cherita Persons-Grimstead  
Schlumberger Technology Corporation  
14910 Airline Road  
Rosharon, Texas 77583-1590  
Telephone: (281) 285-5104

Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	56.8 (11.2)
Education (years)	Mean (SD)
Male	12.5 (2.1)
Female	12.8 (2.3)
Marital status	
Married	78%
Single	22%
Occupation	
Professional	35%
Managerial	25%
Skilled	20%
Unskilled	20%
Income (USD/month)	Mean (SD)
Male	1,200 (300)
Female	1,150 (280)
Health insurance	
Yes	85%
No	15%

**Cherita Persons-Grimstead  
Schlumberger Technology Corporation  
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Rosharon, Texas 77583-1590  
Telephone: (281) 285-5104**



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: ALMAGUER, J.

Attorney Docket No.: 22.1414

Serial No.:

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Filed Herewith: December 20, 2001

Examiner:

For: Downhole Magnetic-Field Based Feature Detector

Box PATENT APPLICATION

Commissioner of Patents and Trademarks

Washington, D.C. 20231

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 Dec. 20, 2001  
Cherita Persons-Grimstead Date

Cherita Persons-Grimstead  
Schlumberger Technology Corporation  
14910 Airline Road  
Rosharon, Texas 77583-1590  
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1002227-1002227